

Claims

1. An imaging system, comprising:
an interlaced imaging device;
a mirrored shaft that is axially displaceable for presenting different
views to said imaging device;
5 drive means including an electric motor for reciprocatingly displacing
said mirrored shaft to change the view presented to said imaging device; and
control means for controlling said electric motor in response to a data
acquisition control signal of the imaging device such that interlaced video data
produced by said imaging device includes data pertaining to two or more
10 different views.

2. The imaging system of Claim 1, wherein said data acquisition control
signal is a vertical synchronization control signal that coordinates readout of
said video data.

3. The imaging system of Claim 2, wherein said mirrored shaft includes
first and second axially separated mirrors that are alternately in position with
respect to said imaging device during successive data acquisition periods of said
imaging device.
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4. The imaging system of Claim 1, wherein said drive means includes a
rotary cam mechanism driven by said electric motor and a connecting arm
coupling said cam mechanism to said mirrored shaft.

5. The imaging system of Claim 4, wherein said control means continuously drives said electric motor at a speed that is in synchronism with said data acquisition control signal.